



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/533,437 | 08/23/2006 | Martin Becker | WI.1832 PCT-US | 9109 |
| 7590 Douglas R Hanscom Jones Tullar & Cooper Eads Station PO Box 2266 Arlington, VA 22202 | | | | |
| 07/02/2008 | | | | |
| EXAMINER | | | | |
| CHEN, YUAN L | | | | |
| ART UNIT | | PAPER NUMBER | | |
| 2854 | | | | |
| MAIL DATE | | DELIVERY MODE | | |
| 07/02/2008 | | PAPER | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/533,437

Applicant(s)

BECKER ET AL.

Examiner

Yuan L. Chen

Art Unit

2854

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 August 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 66-138 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☒ Claim(s) 66-138 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/CDC)
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date: _____

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

- Group 1 Claims 66 – 68, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel **located in the surface** and formed by **milling**.
- Group 2 Claims 66 and 83, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel located no more than **20 mm underneath a shell surface**.
- Group 3 Claims 66 and 85, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel where the distance between the inflow and outflow is at least **one print producing area**.
- Group 4 Claims 66 and 86, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel **parallel to an axis** of rotation.

- Group 5 Claims 66 and 87, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel extending as a **helix**.
- Group 6 Claims 66 and 88, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel with a **constant heat exchange**.
- Group 7 Claims 66 and 89 - 90, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel as a **contact surface** which is **constant**.
- Group 8 Claims 66, 89 and 91, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel as a **contact surface** which provides a **changing dwell time**.
- Group 9 Claims 66 and 92, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel which has **first and second cross-sectional surfaces**.
- Group 10 Claims 66 and 93, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel which has **first and second depths**.
- Group 11 Claims 66 and 94, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel in a **positively connected manner**.

- Group 12 Claims 66 and 95, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel where the **insert changes a cross-sectional surface**.
- Group 13 Claims 66 and 96, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the insert is **wedge-shaped**.
- Group 14 Claims 66 and 97, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the insert is **glued**.
- Group 15 Claims 66 and 98, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the insert is a **rod**.
- Group 16 Claims 66 and 99, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the insert is **press fit**.
- Group 17 Claims 66 and 100, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the insert is placed by **molding**.
- Group 18 Claims 66 and 101, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the insert is a **thermal insulating material**.

Art Unit: 2854

- Group 19 Claims 66 and 111, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein an outer shell surface is adapted to support **dressing**.
- Group 20 Claims 66, 114 and 117, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the outer body is a **curved element** with **central angle less than 360°**.
- Group 21 Claims 66, 114 and 120, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the outer body is a **plurality of curved elements** with **sum of central angles no greater than 360°**.
- Group 22 Claims 66 and 123, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the rotating body is a **forme or transfer cylinder**.
- Group 23 Claims 66 and 124, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel and an **insert** in the channel wherein the rotating body is an **inking roller**.
- Group 24 Claims 69 and 70, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** and **open toward the outer body inner surface**.

Art Unit: 2854

- Group 25 Claims 69 and 71, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** and has a **bottom toward the base body surface**.
- Group 26 Claims 69 and 72, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** including a **medium guide surface**.
- Group 27 Claims 69 and 73, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** by casting.
- Group 28 Claims 69 and 74, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** partially **including the base body**.
- Group 29 Claims 69 and 75, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** in the **shape of cylinder**.
- Group 30 Claims 69 and 76, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** wherein the base and outer bodies have **matched coefficients of thermal expansion**.

- Group 31 Claims 69 and 77, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material with hollow glass bodies.**
- Group 32 Claims 69 and 78, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material cast between the base and outer body inner surfaces.**
- Group 33 Claims 69, 79 and 80, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** which is a **sleeve** of an **injection-molded plastic.**
- Group 34 Claims 69, 79 and 81, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** which is a **sleeve** with **exterior forms the channel.**
- Group 35 Claims 69, 79 and 82, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** which is a **sleeve** wherein the **channel is formed by injection molding**
- Group 36 Claims 69 and 84, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in

a **thermal insulating material** wherein the channel is located **no more than 20 mm underneath** the shell surface.

Group 37 Claims 69 and 105, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** which is a **synthetic resin**.

Group 38 Claims 69 and 112, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** wherein an outer shell surface is adapted to support **dressing**.

Group 39 Claims 69, 115 and 118, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** wherein the outer body is a **curved element** with **central angle less than 360°**.

Group 40 Claims 69, 115 and 121, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** wherein the outer body is a **plurality of curved elements** with **sum of central angles no greater than 360°**.

Group 41 Claims 102 and 103, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** and **castable**.

Art Unit: 2854

- Group 42 Claims 102 and 104, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** and the rotating body is an **inking roller**.
- Group 43 Claims 102 and 106, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** and a **synthetic resin**.
- Group 44 Claims 102 and 107, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** and includes **hollow glass bodies**
- Group 45 Claims 102 and 108 - 109, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** and **exchanges heat** along a distance between the **inflow and outflow**.
- Group 46 Claims 102, 108 and 110, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel which is formed in a **thermal insulating material** and **thermally insulated** along a distance between the **inflow and outflow**.
- Group 47 Claims 102 and 113, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a

thermal insulating material is arranged as a **cylindrical sleeve** wherein an outer shell surface is adapted to support **dressng**.

Group 48 Claims 102, 116 and 119, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** wherein the outer body is a **curved element** with **central angle less than 360°**.

Group 49 Claims 102, 116 and 122, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** wherein the outer body is a **plurality of curved elements** with **sum of central angles no greater than 360°**.

Group 50 Claims 102 and 125 - 126, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as **several cylindrical sleeves of different widths**.

Group 51 Claims 102, 125 and 127, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as **several cylindrical sleeves** extending over an **axial length**.

Group 52 Claims 102, 125 and 128 - 129, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as **several cylindrical**

sleeves and axially extending **grooves** forming **continuous flow channel**.

- Group 53 Claims 102, 125, 128 and 134, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as **several cylindrical sleeves** and axially extending **grooves** covered by the outer body.
- Group 54 Claims 102, 125, 128 and 138, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as **several cylindrical sleeves** and axially extending **grooves** including **strips**.
- Group 55 Claims 102, 125 and 132, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as **several cylindrical sleeves** with **outer body on top**.
- Group 56 Claims 102, 125 and 133, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as **several cylindrical sleeves** positively **connected to the outer body**.
- Group 57 Claims 102, 125 and 136, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as **several cylindrical sleeves** which are **plastic** material

- Group 58 Claims 102, 125 and 137, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as **several cylindrical sleeves fastened on the base body**.
- Group 59 Claims 102 and 130, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** and the outer body is a **cylindrical pipe**.
- Group 60 Claims 102 and 131, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** and the outer body is **thin-walled**.
- Group 61 Claims 102 and 135, drawn to a rotating body of a printing press including a barrel with a temperature control medium flow channel wherein a thermal insulating material is arranged as a **cylindrical sleeve** and the outer body is **corrosion and wear proof metallic material**.

2. Inventions listed as Group 1 – 61 do not directly relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.1, they lack the same or corresponding special technical features for the following reasons: as shown in “International Preliminary Examination Report” dated 02/28/2005, the cited D1 references establish a lack of unity *a posteriori* for the independent claims 1, 36 and 37 in PCT/DE 03/03527, and the technical features of new independent Claims 66, 69 and

102 (equivalent to claims 1, 36 and 37 in PCT/DE 03/03527) are not the technical features that define a contribution over prior art.

3. Claims 66 links inventions 1 – 23, Claim 69 links inventions 24 – 40, and Claim 102 links inventions 41 – 61. The restriction requirement among the linked inventions is **subject to** the nonallowance of the linking claims 66, 69 and 102. Upon the indication of allowability of the linking claim(s), the restriction requirement as to the linked inventions **shall** be withdrawn and any claim(s) depending from or otherwise requiring all the limitations of the allowable linking claim(s) will be rejoined and fully examined for patentability in accordance with 37 CFR 1.104. **Claims that require all the limitations of an allowable linking claim** will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

Applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, the allowable linking claim, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

4. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above

and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:

- (a) the inventions have acquired a separate status in the art in view of their different classification;
- (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
- (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
- (d) the prior art applicable to one invention would not likely be applicable to another invention;
- (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement

will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yuan L. Chen whose telephone number is 571-270-3799. The examiner can normally be reached on Monday-Friday 7:30 AM to 5:00 PM EST.

Art Unit: 2854

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yc

/Ren L Yan/
Primary Examiner, Art Unit 2854